

# Data Yield of the **ILRS** Global Network Over the Past Decade

**Erricos C. Pavlis**

**Joint Center for Earth Systems Technology and**

**NASA Goddard Space Flight Center**

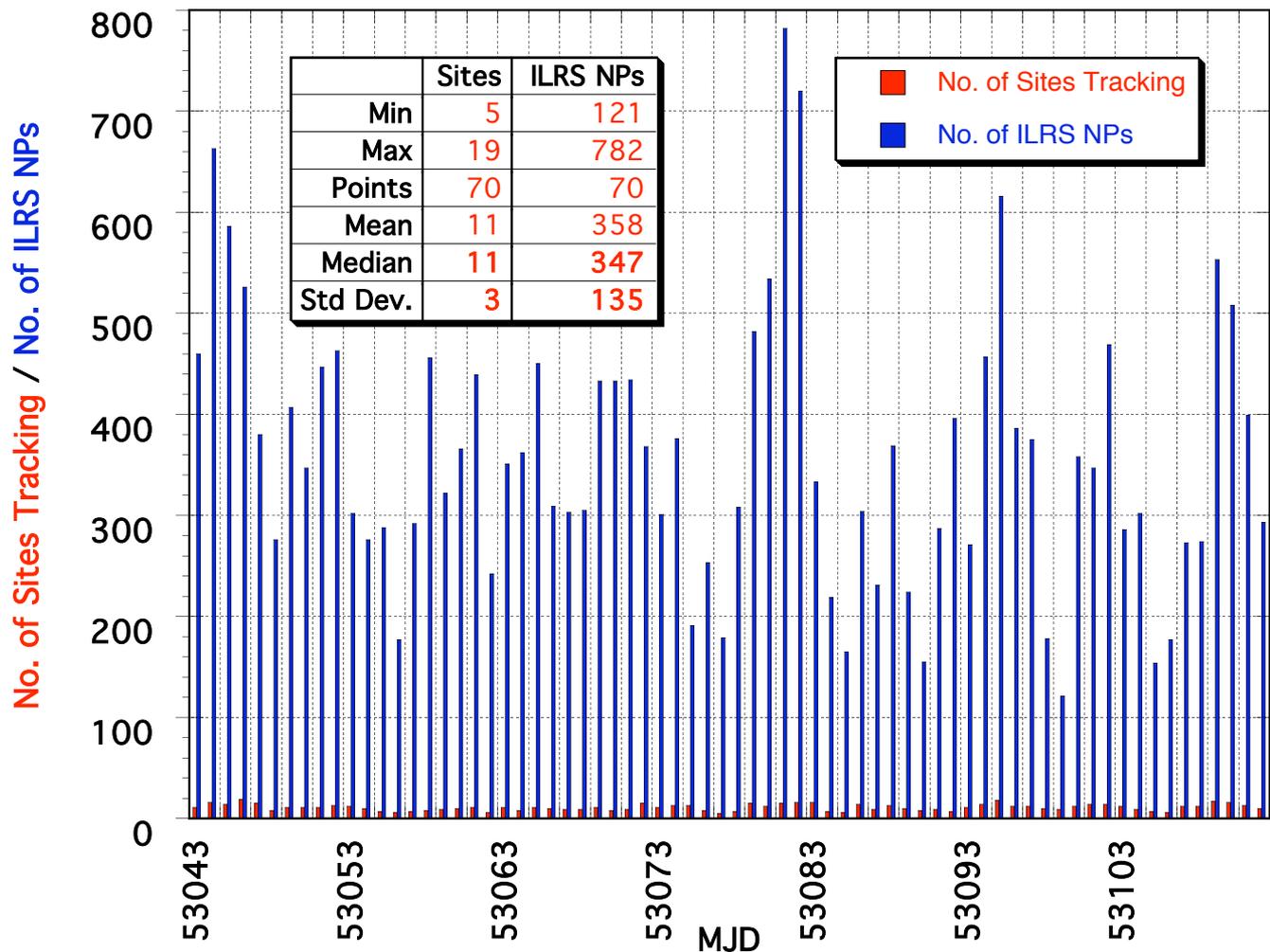
[epavlis@JCET.umbc.edu](mailto:epavlis@JCET.umbc.edu)

**14th International Laser Workshop**

**San Fernando, Spain, June 7 - 11, 2004**

# Recent Data Distribution

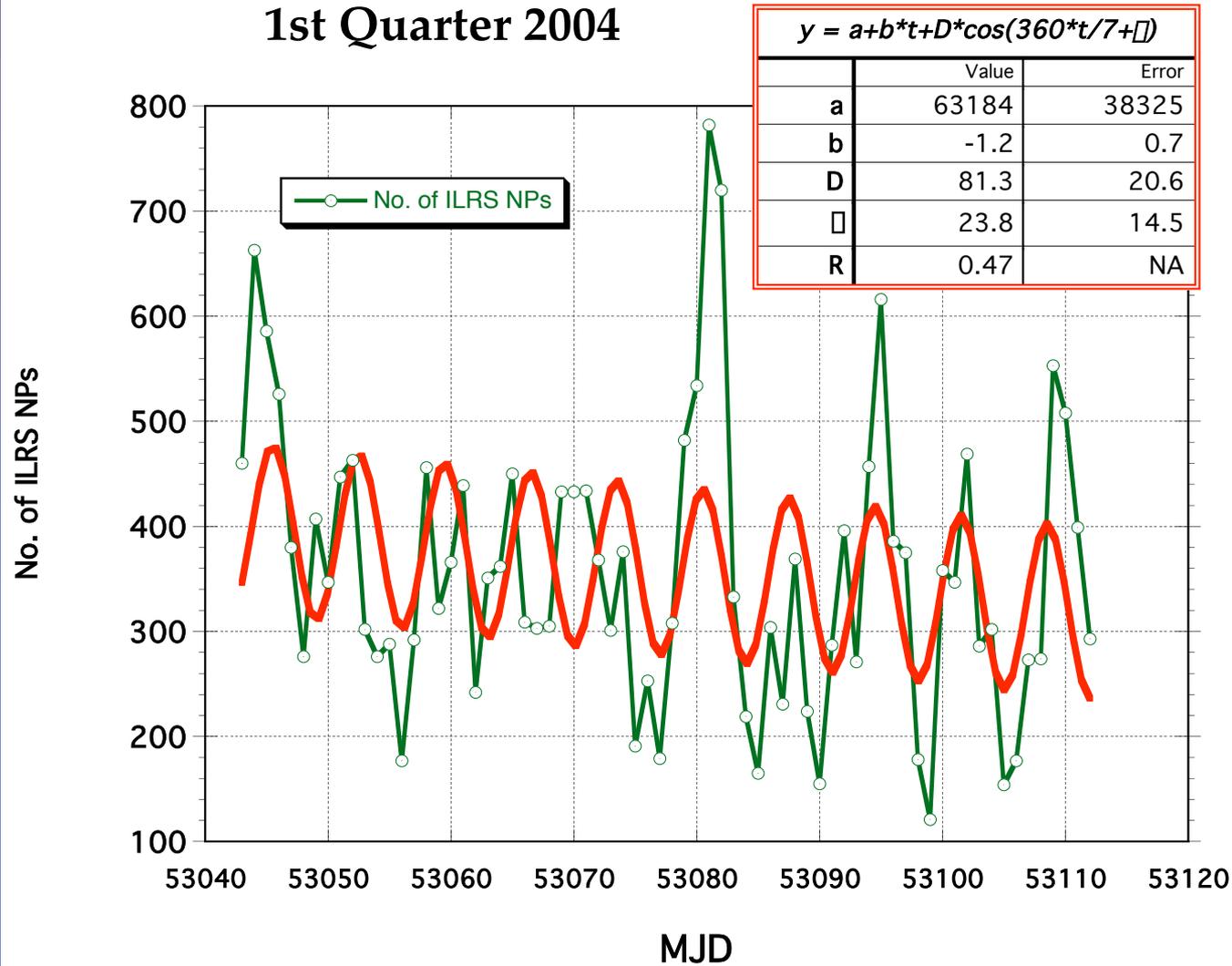
1st Quarter 2004



14th ILRS Workshop, San Fernando, Spain, 7-11 June, 2004

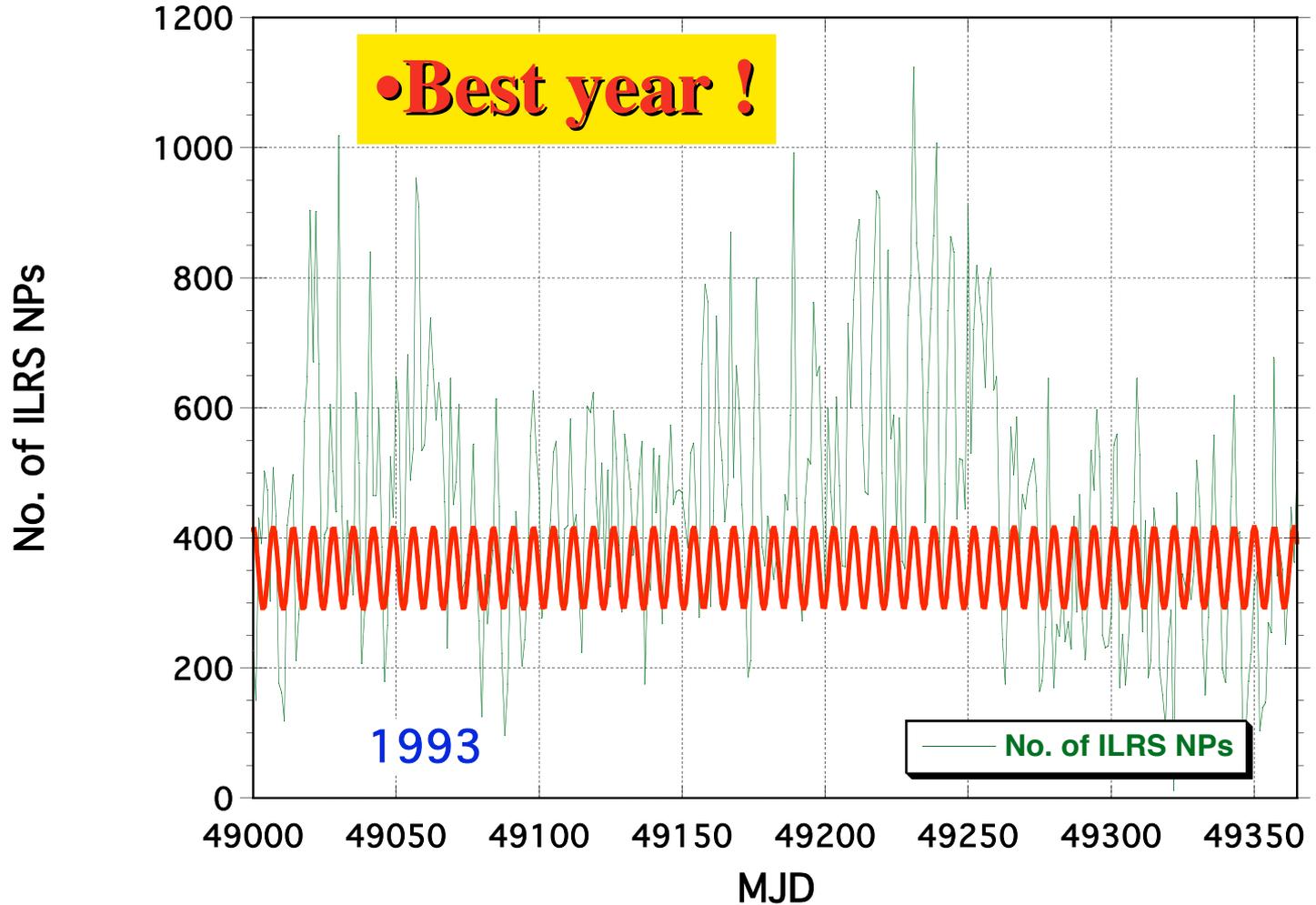
# “Weekend” Effect

1st Quarter 2004



14th ILRS Workshop, San Fernando, Spain, 7-11 June, 2004

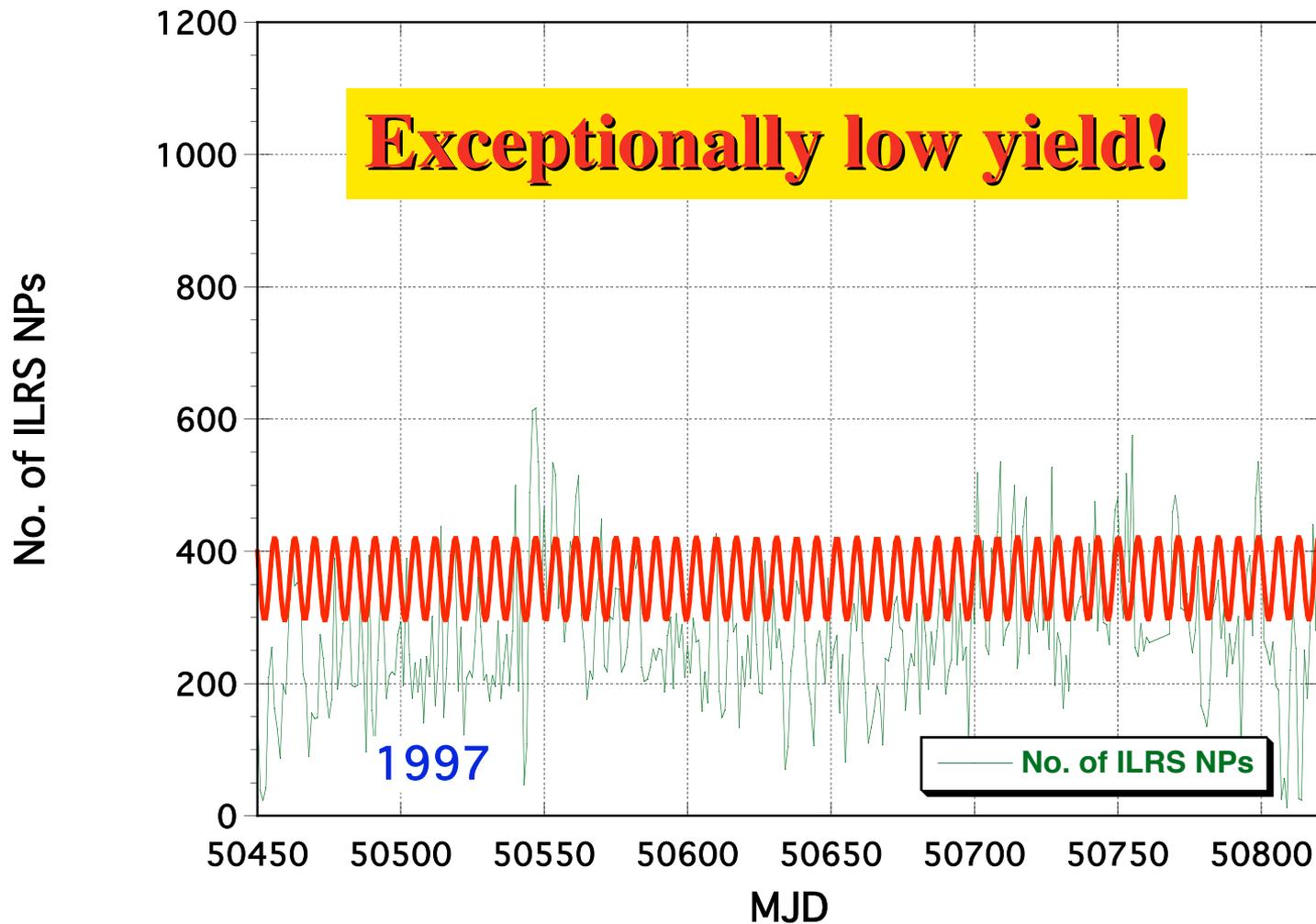
# “1993”



HISTO\_by\_day\_1993-2002.u 5:32:50 PM 5/11/04

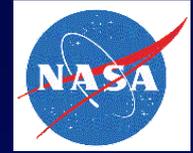
14th ILRS Workshop, San Fernando, Spain, 7-11 June, 2004

# “1997”



HISTO\_by\_day\_1993-2002.u 5:32:50 PM 5/11/04

14th ILRS Workshop, San Fernando, Spain, 7-11 June, 2004



# Summary

- The analysis of the past 10-year tracking record for LAGEOS I and II shows a strong weekend effect throughout the period.
- Some years (few) exhibit significantly stronger tracking than others (most)
- For most years, significant annual and semi-annual signals are evident
- In the most recent years a drop in the tracking is clearly evident
- The linear slope from the entire 10-year record is positive (+1 NP/yr) while the slope fit to the 1st quarter of 2004 has opposite sign: -1 NP/yr
- The amplitude of the “weekend effect” is ~62 NPs for the entire 10-year record, but the effect is enhanced in the 2004 fit, with an amplitude of ~81 NPs.